O'BRIEN Serial No. 10/052,107



REMARKS

(ul

Claims 1-6 and 8 stand variously rejected in the outstanding Official Action. Claims 1-3 have been cancelled without prejudice and claims 4, 6 and 8 amended. Accordingly, claims 4-6 and 8 are the only claims remaining in this application.

(U)

The Examiner's acknowledgment of applicant's claim for foreign priority and receipt of the certified copy of the priority document is very much appreciated. Additionally, the Examiner's consideration of the prior art submitted with applicant's Information Disclosure Statement is appreciated.

R)

Claims 1-6 and 8 stand rejected under 35 USC 102(b) as being anticipated by Pizzi (WO 98/34380). However, nowhere in the Pizzi reference is there a disclosure of the features set out in claims 4, 5 and 6, i.e. Reed Solomon forward error correction. Applicant has cancelled without prejudice claims 1, 2 and 3, and therefore claim 4 has been amended to read in independent form, with claims 5, 6 and 8 dependent thereon. Claim 4 requires that the error correction corresponds to Reed Solomon forward error correction. Because there is no disclosure of this feature or method step in the Pizzi reference, Pizzi cannot support a rejection under 35 USC 102.

(U)

Claim 1 is rejected under 35 USC 102(b) as anticipated by Fang '109, Bentall, Ayanoglu, Pasternak, Hirata '989, Toyoda, Aikawa or Law. Because claim 1 as been cancelled without prejudice, the rejection thereof under 35 USC 102 is mooted.



- 5 -

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(u)

Claim [?] is rejected under 35 USC 102(e) as anticipated by Fang '715 in section 3 of the Official Action. Applicant's undersigned representative left a message with the Examiner questioning what claim was intended to be referenced in section 3 on page 2 of the Official Action. The Examiner has returned applicant's call and indicated that a reference to claim 1 was intended in section 3. Therefore, applicant notes that this claim has been cancelled without prejudice, thereby mooting the rejection.

(0)

Claims 1-6 and 8 stand rejected under 35 USC 112 (second paragraph) as being indefinite. Specifically, regarding claims 1 and 2, the Examiner suggests that the use of the word "hardening" is unclear in the context utilized. Applicant encloses herewith the definition of "hardening" and the Examiner's attention is directed to definition number 4, i.e. "to protect from possible danger...." Moreover, the Examiner's attention is directed to applicant's specification, page 2, lines 2-5, which defines "cell hardening" as "resistance to cell corruption."

(8)-

Because the present claims relate to a method of hardening ATM cells, the meaning of this word is clear in view of the dictionary definition and would be even more clear to those of ordinary skill in the art reviewing applicant's specification. Therefore, although claims 1 and 2 have been cancelled without prejudice, the subject matter thereof has been incorporated into amended claim 4 and any future rejection of claim 4 based on the use of the word "hardening" is respectfully traversed.

(U)

Apparently claims 2-6 and 8 were only unclear because they depended from an alleged unclear independent claim 1. Presumably because amended claim 4 is clear, claims



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5, 6 and 8 dependent thereon are also similarly clear. Accordingly, any further rejection of claims 4-6 and 8 under 35 USC 112 (second paragraph) is respectfully traversed.

Having responded to all objections and rejections set forth in the outstanding Official Action, remaining claims 4-6 and 8 are believed to be clearly in condition for allowance and notice to that effect is respectfully solicited. In the event the Examiner is of the opinion that a brief telephone or personal interview will facilitate allowance of one or more of the above claims, he is respectfully requested to contact applicant's undersigned representative.

Respectfully submitted,

NIXON & VANDERHYE P.Ç.

By:

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(U)

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Enclosure:

Page 553, Webster's Ninth New Collegiate Dictionary

COEGLASSIFIED BY ORIGINATING AGENCY

[Gk haptein + E -o- + hemoglobin] rate-containing serum alpha globulins tlobin in the plasma
[Jp harakiri, fr. hara belly + kiri cut-sembowelment practiced by the Japaby a court in lieu of the death penalty, fr. MF arenge, fr. Olt aringa. deniv. origin: akin to OHG heri army and to y. RING] (15c) 1: a speech addressed phastic ranting speech or writing 3 nbastic ranting speech or writing 3

u-ing vi (1660): to make a harangue i harangue (haranguing me ... on the

i harangue (haranguing me on the haranguer n asser, fr. MF, fr. harer to set a dog on, e dogs, of Gmc origin; akin to OHG 22) 1: to worry and impede by relation as EXHAUST, FATIGUE b: to annoy arasser n — harassment \—mon\tan i herbergere, fr. MF, host, fr. herberge OHG heriberga] (14c) 1 archaic; a gings 2 a: one that pioneers in or URSOR b: one that presages or foree FORERUNNER

inger of : PRESAGE inger of: PRESAGE
ge, herberwe, fr. OE herebeorg military
i), fr. here army (akin to OHG heri) +
burg fortified town — more at HARRY,
security and comfort: REFUE 2: a
d and deep enough to furnish anchorhar-bor-ful \-ful\ n — har-bor-less

g \-b(\tau-)rin\ vt (12c) 1 a: to give the home or habitat of: CONTAIN (the to hold a thought or feeling of \(\sim ed a \) er in or as if in a harbor 2: LIVE—

LTER.HARBOR

1\ n (1769): an officer who executes

2 of a harbor

2 cal (Phoca vitulina) that occurs along

misphere and often ascends rivers

misphere and often ascends nivers ard ard, akin to OHG hart hard, Gk krator easily penetrated: not easily yielding pable of being spread: very firm 2 a racid taste (2): strongly alcoholic b of salts (as of calcium or magnesium) p (~ water) 3 a: of or relating to strating power (~ X rays) b: having notographic contrast (a ~ negative) 4 er (~ money) b of currency: converts c: being high and firm (~ prices) 5 (~ yarns) b: having a smooth close 5 a: physically fit (in good ~ condiss disease) c: free of weakness or dete (reached a ~ agreement) (2): not TUAL (~ evidence) b: CLOSE. SEARCH-rom sentimentality or illusion: REALIS; in responsiveness: OBDURATE UNFELL ifficult to bear or endure (~ luck) (~ rable sales taxes are ~ on the poor) (a consideration, compassion, or gentledlord) (2): INCORRIGIBLE. TOUGH (a ~ or offensive in tendency or effect (said JL (~ feelings) (3): STRICT, UNRELEMINCLEMENT (~ winter) e (1): intenselows) (2): demanding the exertion of dendurance (~ work) (3): performency, intensity, or persistence (a ~ by sharp or harsh outline, rigid execuarly) defined: STARK (~ shadows) c, or resonance (~ singing tones) de respectively — used of c and g 10 a resolve: TROUBLESOME (~ problems); by) (2): difficult to comprehend or office difficulty in doing something (~ of stize or demagnetize 11: being at once talt to health (such ~ drugs as heroin) on (~ detergents) (~ pesticides like 1, or using the methods of one or more fe sciences, or the physical sciences (a ~ US) mean demanding great exertion or ard; akin to OHG hart hard, Gk kratos fe sciences, or the physical sciences (a ~

US mean demanding great exertion or site of all that is easy; DIFFICULT implies e surmounted or puzzles to be resolved patience, or courage; ARDUOUS stresses revering exertion. syn see in addition

y 2: poorly provided (he was hard up

with great or utmost effort or energy yrk) (the children played ~) b: in a: to the full extent — used in nautical: to an immoderate degree (hitting the close, or concentrated manner (stared ~ nner as to cause hardship, difficulty, or cor, bitterness, or grief (took his defeat SHTLY 4: to the point of hardness (the me or space (the house stood ~ by the

di (1864): not to be modified or evaded

: a book bound in hard covers

hard-ball \-bol\ n (1944) 1: BASEBALL 2: forceful uncompromising methods employed to gain an end \(played political \sim to win the nomination

nation)
hard-bit-ten \-'bit-'n\ adj (1784) 1: inclined to bite hard 2: seasoned or steeled by difficult experience: TOUGH
hard-board \-'hard-bō(a)rd. -bō(a)rd\ n (1925): a very dense fiberboard
usu. having one smooth face
hard-boil\-'boi(a)\]\ wf [back-formation fr. hard-boiled] (1895): to cook
(an egg) in the shell until both white and yolk have solidified
hard-boiled \-'boi(a)\do di)\do di (1886) 1: devoid of sentimentality
:TOUGH \(a \to dirill sergeant \)\ \(a \to detective story \)\) 2: HARDHEADED.
PRACTICAL (handle aid programs on a friendly but \to business basis \(-m\), Y. Times \(\)

(an egg/III hard with a different and of the state of the

of the arteries)
hard-fist-ed \hard-fis-t-ed\ adj (1656) 1: STINGY. CLOSEFISTED 2
: HARDHANDED
hard goods n pl(1934): DURABLES
hard-hack \hard-hack n (1814): a shrubby American spirea (Spiraea tomentosa) with rusty hairy leaves and dense terminal panicles of pink
or occas. white flowers
hard hard-hard adj (1500) 1 having hards made hard by

comentosa) with rusty hairy leaves and dense terminal panicles of pink or occas, white flowers hard-hand-ed *-han-dad* adj (1590) 1: having hands made hard by labor 2: STRICT. OPPRESSIVE — hard-hand-ed-ness n hard hat \usus -hat for 1 and -hat for 2 & 3 n (1926) 1: a protective hat made of rigid material (as metal or fiberglass) and worn esp. by construction workers 2: a construction worker 3: a conservative who is strongly opposed to nonconformists hard-head *-hard-hed* n (15c) 1 a: a hard-headed person b: BLOCK-HEAD 2: any of several fishes esp. with a spiny or bony head; esp: ATLANTIC CROAKER 3: any of several knapweeds (esp. Centaurea nigra) — usu. used in pl. but sing. or pl. in constr. hard-head-ed*-\hard-had*-\daj (1583) 1: STUBBORN. WILLFUL 2: not moved by sentiment or impulse: SOBER. REALISTIC (\(\times\) common sense\(\times\) — hard-head-ed-ly ady — hard-head-ed-ness n hard-heart-ed *-hard-had*-daj (bcl. 12c): lacking in sympathetic understanding: UNFEELING. PITILESS — hard-heart-ed-ly adv — hard-heart-ed-ness n hard-hit-ting *-hit-in*\ adj (1839): strikingly effective in force or result

understanding: UNFELING. PITILESS — hard—heart-ed-ly adv — hard—heart-ed-ness n hard—hit-ting \".\"hit-in\ adj (1839): strikingly effective in force or result (a ~ sales compaign) (a ~ expose on political corruption) hardi-hood \"hard-e\nd\"hard-hid\" n (1570) 1 a: resolute courage and fortitude b: resolute and self-assured audacity often carried to the point of impudent insolence 2: VIGOR. ROBUSTNESS \(\foatimes \) nsee TEMERITY hard-ment\"mant\", \mant\" n [ME, fr. MF, fr. OF, fr. hardi bold, hardy] (14c) \(1 \) archaic: HARDIHOOD \(2 \) obs: a bold deed harding-grass \"\"härd-in-gras\" n. \(\) often cap [prob. fr. the name \(Harding \) (ca. 1922): a perennial grass \((Phalaris tuberosa stenoptera \) of Australia and southern \(A \) frica irroduced into \(No. \) America as a forage grass ard labor \(n \) (1853): compulsory labor of imprisoned criminals as a part of the prison discipline hard-line \"\"h\"ard\" in\"\ adj \(1962): \) advocating or involving a persistently firm course of action: UNVIELDING \((a \simp \) policy toward polluters\) — hard-line \"\"h\"ard\" in\"\ adj \(1962): \) advocating or involving a persistently firm course of action: UNVIELDING \((a \simp \) policy toward polluters\) — hard-line \"\"h\"ard\" in\" adj \(1962): \) advocating or involving a persistently firm course of action: UNVIELDING \((a \simp \) policy toward polluters\) — hard-line \"\"h\"ard\" in\" adj \(1962): \) hard luck hard-line \"\"h\"ard\" in\" adj \(1962): \) advocating or involving a persistently itm course of action: UNVIELDING \((a \simp \) policy toward polluters\) — hard-line \"\"h\"ard\" in\" adj \(1962): \) advocating or involving a persistently itm course of action: UNVIELDING \((a \simp \) policy toward polluters\) — hard-line \"\"h\"ard\" in\"\ adj \(1962): \) advocating or involving a persistently itm course of action: UNVIELDING \((a \simp \) policy toward polluters\) — hard-line \"\"h\"ard\" in\"\ adj \(1962): \) advocating or involving a persistently itm course of action: \(\) \

hardball hare 553 in the transcription of speech. hardly ever adv (1892): almost never: very seldom (we hardly ever see

harding ever any (1892): almost never: very seriom (we harding ever see them anymore) hard maple n (1790): SUGAR MAPLE hard-mouthed \hard-mauthd. -'mautht\ adj (1617) 1 of a horse: not sensitive to the bit 2: OBSTINATE.STUBBORN hard-ness \-n.os\ n [ME. fr. OE heardness, fr. heard] (bef. 12c) 1: the quality or state of being hard 2: the cohesion of the particles on the surface of a mineral as determined by its capacity to scratch another or be itself scratched — compare MOHS SCALE hard-nosed \hard-nosed \h

hard-nosed 'hard-nosed 'ad (1927) 1: HARD-BITTEN, STOBBOTK 2: HARD-BATED 2 (~ budgeting) hard-of-hear-ing \hard-of-hear-ing \hard-of-hear-

roof of the mouth

hard-pan \hard-pan\ n (1817) 1: a cemented or compacted and often clayey layer in soil that is impenetrable by roots 2: a fundamental BEDROCK

hard pine n (1884): a pine (as longleaf pine or pitch pine) that has hard wood and leaves usu. in groups of two or three; also: the wood of a

pressed \-'prest\ adj (1825): HARD PUT: esp.: being under finan-

hard put adj (1893): barely able: faced with difficulty or perplexity

hard put adj (1893): barely able: faced with difficulty or perplexity (was hard put to find an explanation) hard rock n (1967): rock music marked by a heavy jarring beat, high amplification, and usu, frenzied performances hard rubber n (1860): a firm rubber or rubber product; esp: a normally black horny substance made by vulcanizing natural rubber with high percentages of sulfur hard sauce n (1899): a creamed mixture of butter and powdered sugar often with added cream and flavoring (as vanilla or rum) hard-scrab-ble ('härd-skrab-bl.adj (1888): yielding or gaining a meager living by great labor (~ farms) hard sell n (1952): aggressive high-pressure salesmanship — compare SOFT SELL

SOFT SELL

hard-set \hard-set\ adj (15c): RIGID. FIXED

hard-shell \\ \cdot_shel\ \ota \cdot hard-shelled \\ \cdot_shel\ \ota \cdot \cdot

shelled clam hard-shell crab n (1902): a crab that has not recently shed its shell \rightarrow

nard-shell crab n (1902): a crab that has not recently shed its shell -called also hard-shelled crab hard-ship \hard-ship \ n (13c) 1; PRIVATION SUFFERING 2: something that causes or entails suffering or privation hard-stand \ , stand\ n (1944): a hard-surfaced area for parking an

hard-stand _standin\ n (1944): HARDSTAND
hard-sur-face _ser-fas\ w (1928): to provide with a paved surface
hard-sur-face _1ser-fas\ w (1928): to provide with a paved surface
hard-tack _1tak\ n (1836) 1: a salitess hard biscuit or bread made of
flour and water 2: any of several mountain mahoganies
hard-times token n (1922): one of the tokens issued during the controversy between the Jacksonian administration and the bank of the U.S.
hard-top _1tap\ n (1949): an automobile or a motorboat having a permanent rigid top; also: such an automobile styled to resemble a convertible

vertible hardware \('h\arg \text{, dwe(a)r}\) \(n \) (1515) 1: ware (as fittings, cutlery, tools, utensils, or parts of machines) made of metal 2: major items of military or police equipment or their components 3: the physical components (as electronic and electrical devices) of a vehicle (as a spacecraft) or an apparatus (as a computer); also: the physical equipment of a system of transportation 4: devices (as tape recorders, phonographs, or closed-circuit television) often used as instructional equipment (educational \sim) hardware cloth n (1914): rugged galvanized screening commonly in meshes of two, four, or eight squares to the square inch hard wheat n (1812): a wheat with hard flinty kernels that are high in gluten and that yield a strong flour esp. suitable for bread and macaroni

'hard-wood \'har-,dwud\ n (1568) 1: the wood of an angiospermous tree as distinguished from that of a coniferous tree 2: a tree that yields hardwood 'hardwood adj (1817) 1: having or made of hardwood \(\sim \text{floors} \) 2

Phardwood adj (1817) 1: having or made of hardwood (~ floors) 2: consisting of mature woody tissue (~ cuttings) hard-wooded \hat{har}-dwud-adj (1858) 1: having hard wood that is difficult to work or finish 2: HARDWOOD 1 hard-weing \hat{har}-dwor-kinj adj (1774): INDUSTRIOUS hardy \hat{har}-di-e\

tion to generation in manifest the property of the property of the principle and emigration do not occur— called also Hardy-Weinberg principle hare ('ha(a)r, 'he(a)r\ n. pl hare or hares [ME. fr. OE hara: akin to OHG haso hare. L canus hoary, gray] (bef. 12c): any of various swift timid long-eared lagomorph mammals (family Leporidae and esp.

\a\abut \and kitten, F table \ar\further \a\ash \a\ace \a\cot, cart \au\out \ch\chin \e\ bet \e\easy \g\ go \i\ hit \i\ ice \j\ job \y\ yet \zh\ vision \a, k, n, ce. ce, ue. ue, \overline{v}\ see Guide to Pronunciation